(5)

saccharides having a degree of glucose polymerization of at least 3;

- (2) Molecular weight

 About 69,000-79,000 daltons on sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE);
- (3) Isoelectric point (pI)
 About 5.4-6 4 on isoelectrophoresis;

Amino acid sequence

- (4) Thermostability
 Substantially not inactivated even when incubated in an aqueous solution (pH 7.0) at 85°C for 60 min.; and
 - An amino acid sequence which is not identical to SEQ ID NO:1 but which has physicochemical properties of (1) to (4) inherent to a thermostable enzyme of SEQ ID NO:1, said amino acid sequence comprising an amino acid sequence of at least two contiguous amino acid residues in SEQ ID NO:3 and/or SEQ ID NO:4 and being encoded by a chromosomal DNA which hybridizes to a probe having the nucleotide sequence of 5'-AAYYTNTGGTAYTTYA ARGA-3' (SEQ ID NO:7) and a probe having the nucleotide sequence of 5'-GARGARTGGCAYWSNATHAT-3' (SEQ ID NO:8).

Cont

July unit